

Input Set : A:\Q61014 Sequence Listing.txt
Output Set: N:\CRF3\07242001\1670568B.raw

ENTERED

3 <110> APPLICANT: Otsuka Pharmaceutical Co., Ltd. 5 <120> TITLE OF INVENTION: HUMAN P51 GENES AND GENE PRODUCTS THEREOF 7 <130> FILE REFERENCE: Q61014 9 <140> CURRENT APPLICATION NUMBER: 09/670,568B 10 <141> CURRENT FILING DATE: 2000-09-27 12 <150> PRIOR APPLICATION NUMBER: JP 10-100467 13 <151> PRIOR FILING DATE: 1998-03-27 15 <160> NUMBER OF SEQ ID NOS: 23 17 <170> SOFTWARE: PatentIn version 3.1 19 <210> SEQ ID NO: 1 20 <211> LENGTH: 448 21 <212> TYPE: PRT 22 <213> ORGANISM: Homo sapiens 24 <220> FEATURE: 25 <221> NAME/KEY: DOMAIN 26 <222> LOCATION: (1)..(59) 27 <223> OTHER INFORMATION: transactivation domain 30 <220> FEATURE: 31 <221> NAME/KEY: DNA\_BIND 32 <222> LOCATION: (142)..(321) 33 <223> OTHER INFORMATION: DNA binding domain 36 <220> FEATURE: 37 <221> NAME/KEY: DOMAIN 38 <222> LOCATION: (353)..(397) 39 <223> OTHER INFORMATION: oligomerization domain 42 <400> SEQUENCE: 1 44 Met Ser Gln Ser Thr Gln Thr Asn Glu Phe Leu Ser Pro Glu Val Phe 5 10 48 Gln His Ile Trp Asp Phe Leu Glu Gln Pro Ile Cys Ser Val Gln Pro 20 25 52 Ile Asp Leu Asn Phe Val Asp Glu Pro Ser Glu Asp Gly Ala Thr Asn 56 Lys Ile Glu Ile Ser Met Asp Cys Ile Arg Met Gln Asp Ser Asp Leu 60 Ser Asp Pro Met Trp Pro Gln Tyr Thr Asn Leu Gly Leu Leu Asn Ser 70 75 64 Met Asp Gln Gln Ile Gln Asn Gly Ser Ser Ser Thr Ser Pro Tyr Asn 90 68 Thr Asp His Ala Gln Asn Ser Val Thr Ala Pro Ser Pro Tyr Ala Gln 110 100 105 72 Pro Ser Ser Thr Phe Asp Ala Leu Ser Pro Ser Pro Ala Ile Pro Ser 115 120 76 Asn Thr Asp Tyr Pro Gly Pro His Ser Phe Asp Val Ser Phe Gln Gln 135 140 80 Ser Ser Thr Ala Lys Ser Ala Thr Trp Thr Tyr Ser Thr Glu Leu Lys 150 155 84 Lys Leu Tyr Cys Gln Ile Ala Lys Thr Cys Pro Ile Gln Ile Lys Val

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85					165					170					175	•
	Met	Thr	Pro	Pro		Gln	Glv	Ala	Val		Arq	Ala	Met	Pro		Tyr
89				180			4		185		,			190		•
	Lys	Lys	Ala	Glu	His	Val	Thr	Glu	Val	Val	Lys	Arg	Cys	Pro	Asn	His
93	_		195					200					205			
96 (	Glu	Leu	Ser	Arg	Glu	Phe	Asn	Glu	Gly	Gln	Ile		Pro	Pro	Ser	His
97		210					215					220				
			Arg	y Val	. Glu			Ser	His	Ala			· Val	Glu	ı Asp	Pro
	225			_		230		_		_	235		_	_		240
	Ile	Thr	Gly	/ Arg			· Val	Leu	Val			Glu	Pro	Pro		val
105	- 1	-1		<b>51</b> .	245		1	<b>.</b>	m	250				3	255	
	_	Thr	GIU			Thr	· vaı	Leu			Pne	мет	. Cys			Ser
109		. 17- 7	a1-	260		. 3	. 3		265			т1.	т1.	270		. Tou
	_	vaı	_	_	мет	. ASI	Arg	280		TTE	. rec	ı 116	285		_ 1111	Leu
113		mby	275		C1.		. 37.5.1			- A ~~	7 7 7 7				. λls	Arg
117		290		, ASF	, GIA	GII	295		СТУ	АГУ	ALC	300		GIU	LAIC	nig
				C176	. Drc	. Glu			Δra	T.vc	. <b>Δ</b> 1ε			Asr	Ser	lle
	305	_	, AIG	c Cys	, , ,	310	_	nsp	9	בעב	315		, ora		, ,	320
			Glr	Glr	Va1			Ser	Thr	Lvs			Asp	Glv	Thi	Lys
125		275			325		1101	001		330		. 0		1	335	
		Pro	Phe	. Aro			Thr	His	Glv			Met	Thr	Ser		Lys
129	_			340					345		•			350		
		Arq	Aro			Asp	Asp	Glu	-		Tyr	Leu	Pro			Gly
133	_	3	355					360			_		365		-	•
136	Arq	Glu	Thr	Tyr	Glu	Met	Leu	Leu	Lys	Ile	Lys	Glu	Ser	Leu	. Glu	Leu
137	_	370		-			375		-			380				
140	Met	Gln	Туг	Leu	Pro	Gln	His	Thr	Ile	Glu	Thr	Tyr	Arg	Glr	Glr	Gln
	385					390					395					400
144	Gln	Gln	Gln	His	Gln	His	Leu	Leu	G1n	Lys	His	Leu	Leu	Ser	Ala	Cys
145					405					410					415	
	Phe	Arg	Asn	ı Glu	Leu	val	Glu	Pro			Glu	Thr	Pro			Ser
149				420					425					430		
	_	Val			Arg	His	Ser			Pro	Asn	Arg			. Tyı	Pro '
153			435		_			440					445			
				D NC												
				'H: 2												
				DNA			. •									
					нот	io sa	pien	S								
			'EATU													
				KEY:			(148	01								
				ION:	-	•	•	0)								
			'EATU		Oldin	LION	•									
					no1	VΔC	igna	1								
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	- 44 2						•									
<b>エ</b> /J	<40	0> S	EOUF	NCE:	2											

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																120 171	
182	Phe						ttc	cag			tgg Trp 20						219
											aac Asn						267
											att Ile						315
											atg Met						363
											cag Gln						411
	Ser										gcg Ala 100						459
											acc Thr						507
											tac Tyr						555
											gcc Ala						603
											tgc Cys						651
223											cct Pro 180						699
											gag Glu						747
											cgt Arg						795
											gta Val						843
											aga Arg						891

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														gtc			939
243	Pro	Tyr	Glu	Pro	Pro	Gln	Val	Gly	Thr	Glu	Phe	Thr	Thr	Val	Leu	Tyr	
	250					255		•			260					265	
			_	_		-	_	_	_			_		cgc			987
247	Asn	Phe	Met	Cys	Asn	Ser	Ser	Cys	Val	Gly	Gly	Met	Asn	Arg	Arg	Pro	
248					270					275					280		
														gtc			1035
251	Ile	Leu	Ile	Ile	Val	Thr	Leu	Glu	Thr	Arg	Asp	Gly	Gln	Val	Leu	Gly	
252				285					290					295			
														aga			1083
255	Arg	Arg	Cys	Phe	Glu	Ala	Arg	Ile	Cys	Ala	Cys	Pro	Gly	Arg	Asp	Arg	
256			300					305					310				
														gac			1131
259	Lys	Ala	Asp	Glu	Asp	Ser	Ile	Arg	Lys	Gln	Gln	Val	Ser	Asp	Ser	Thr	
260		315					320					325					
														aca			1179
263	Lys	Asn	Gly	Asp	Gly	Thr	Lys	Arg	Pro	Phe	Arg	Gln	Asn	Thr	His	Gly	
	330					335					340					345	
266	atc	cag	atg	aca	tcc	atc	aag	aaa	cga	aga	tcc	cca	gat	gat	gaa	ctg	1227
267	Ile	Gln	Met	Thr	Ser	Ile	Lys	Lys	Arg	Arg	Ser	Pro	Asp	Asp	Glu	Leu	
268					350					355					360		
														ctg			1275
271	Leu	Tyr	Leu	Pro	Val	Arg	Gly	Arg	Glu	Thr	Tyr	Glu	Met	Leu	Leu	Lys	
272				365					370					375			
														cac			1323
275	Ile	Lys	Glu	Ser	Leu	Glu	Leu	Met	Gln	Tyr	Leu	Pro	Gln	His	Thr	Ile	•
276			380					385					390				
														tta			1371
279	Glu	Thr	Tyr	Arg	Gln	Gln	Gln	Gln	Gln	Gln	His	Gln	His	Leu	Leu	Gln	
280		395					400					405					
														gag			1419
283	Lys	His	Leu	Leu	Ser	Ala	Cys	Phe	Arg	Asn	Glu	Leu	Val	Glu	Pro		
	410					415					420					425	
														tcc			1467
	Arg	Glu	Thr	Pro		Gln	Ser	Asp	Val		Phe	Arg	His	Ser		Pro	
288					430					435					440		
								taga	agcco	cta t	ctct	tatat	t tt	caagt	gtgt	2	1518
	Pro	Asn	Arg		Val	Tyr	Pro										
292				445										_			
																gtatc	1578
																aggca	1638
																itgttt	1698
																tgtct	1758
																agatg	1818
			-			_		_	-	-						igcttt	1878
																ittgtc	1938
																ggtca	1998
																cgagg	2058
312	tgat	catt	cac o	caaaa	igtaa	it ca	actt	tgtg	j ggt	ggag	gagt	tctt	tgt	gag. a	actt	gcatt	2118

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/670,568B
DATE: 07/24/2001
TIME: 13:21:03

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																cctctg		178
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	0 tagaaagaca aatccacccc agtaatattg cccttacgta gttgtttacc attattca															358		
	geteaaaata gaatttgaag eeeteteaca aaatetgtga ttaatttget taattagage														418			
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	agtttagaga atctctgttt.ctttccattt taaaaacata ttttaagata atagcataaa															658		
	gactttaaaa atgtteetee eeteeatett eeeacaeeea gteaeeagea etgtattte																718	
	tgtcaccaag acaatgattt cttgttattg aggctgttgc ttttgtggat gtgtgatttt																778	
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	Gln	His	Ile	_	Asp	Phe	Leu	Glu		Pro	Ile	Cys	Ser		Gln	Pro		
351				20					25		_		_	30	_			
	Ile	Asp		Asn	Phe	Val	Asp		Pro	Ser	Glu	Asp	_	Ala	Thr	Asn		
355			35					40	_			_	45					
	Lys		Glu	Ile	Ser	Met	_	Cys	Ile	Arg	Met		Asp	Ser	Asp	Leu		
359		50					55					60						
		Asp	Pro	Met	Trp		Gln	Tyr	Thr	Asn		GLY	Leu	Leu	Asn			
363					_	70			_		75		_	_	_	80		
	Met	Asp	Gln	Gln		Gln	Asn	GLY	Ser		Ser	Thr	Ser	Pro	Tyr	Asn		
367					85	_	_			90		_	_	_	95	~ 1		
	Thr	Asp	His		Gin	Asn	Ser	Val		Ala	Pro	Ser	Pro		Ala	GIn		
371	_	_	_	100		_			105					110	<b>n</b>	<b>a</b>		
	Pro	Ser		Thr	Pne	Asp	Ala		ser	Pro	ser	Pro		ше	Pro	ser		
375	_	1	115	_		<b>~</b> 1		120		D)		**- 1	125	D1	<b>a</b> 1	<b>01</b>	•	
	Asn		Asp	Tyr	Pro	GLY		HIS	ser	Pne	Asp		ser	Pne	Gln	GIN		
379	<b>a</b>	130	ml		<b>T</b>	<b>a</b>	135	m1	m	m \	m	140	m 1	<b>a</b> 1	T	T		
		ser	Thr	АТа	Lys		Ата	Thr	Trp	Thr		ser	Thr	GIU	Leu			
383		T	m	<b>a</b>	<b>01</b>	150		T	m b	C	155	т1.	@1 m	т1.	T	160		
	rys	ьeu	Tyr	Cys		тте	Ala	гаг	Thr		Pro	TTE	GIN	тте	Lys	vaı		
387	14 a de	m la sa	Desc	D	165	<b>~1</b> ~	C1	<b>3</b> ] a	170 ]	170	7 ~~	7 1 n	Wat	Dwo	175	Marx.		
	met	THE	Pro		Pro	GIII	СТА	Ата		тте	AIG	Ата	Met		Val	тут		
391	T	T 0	<b>31</b> 5	180	ni a	17-1	mb ~	C1	185	175 T	T ***	7 ~~	Crro	190	λαη	Hic		
	пλг	гуу		GIU	птз	AGT	TIIT	200	val	val	пуз	ALG	205	FIO	Asn	1112		
395	C1	T 011	195	λ ~~	C111	Dho	λαν		<u> </u>	Gla	Tla	<b>Δ</b> 1 =		Dro	Ser	Hic		
399	GIU	210	ser.	мту	GIU	rne	215	GIU	· GTĀ	GIII	тте	220	FIO	FIO	261	1113		
	Lou		λνα	Va 1	Gl 11	G1 17		Ser	Hie	Δls	Gln		Va 1	Glu	Asp	Pro		
402		TTE	ALG	va1	GIU	230	นอน	Ser	1173	пта	235		vu.L	JIU	лэр	240		
		Thr	Glv	Ara	Gln		Val	T.e.ii	Va 1	Pro		•	Pro	Pro	Gln			
407		1111	OT I	9	245	501	, 41	Lou	, 41	250	-1-	014			255			
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**VERIFICATION SUMMARY** 

PATENT APPLICATION: US/09/670,568B

DATE: 07/24/2001 TIME: 13:21:04

Input Set : A:\Q61014 Sequence Listing.txt
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